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SKYLAB SHORT-LIVED EVENT ALERT PROGRAM

Quarterly Progress Report No. 2

For the period 1 August to 31 October 1973

Contract NAS 9-13474

Principal Investigator

Mr. Robert A. Citron

(E74-10147) SKYLAB SHORT-LIVED EVENT
ALERT PROGRAM Quarterly Progress Report,
1 Aug - 31 Oct 1973 (Smithsonian
Astrophysical Observatory) 4 p HC \$3 00-

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November 1973

Prepared for

National Aeronautics and Space Administration
Johnson Space Center
Houston, Texas 77058

Smithsonian Institution
Astrophysical Observatory
Cambridge, Massachusetts 02138

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SKYLAB 3

On 31 July, David Squires of the Center for Short-Lived Phenomena (CSLP) visited Johnson Space Center (JSC) in Houston and met with Dr. John Kaltenbach and several team members of the Earth Resources Experiment Package. The purpose of the visit was to plan communications procedures to be followed during the Skylab 3 mission. It was agreed that CSLP would increase the types and numbers of events reported and would expand descriptions of all events to make them as complete and informative as possible.

CSLP began transmitting Skylab - Short-Lived Event Daily Status Reports to JSC on 7 August. The messages were sent every day through 22 September. An example of a typical message is attached.

The following events were reported to JSC by teletype during the Skylab 3 mission.

<u>Event Number</u>	<u>Name</u>	<u>Location</u>
84-73	Japanese Seaweed Introduction to England	Isle of Wight, England
92-73	Tiatia Volcanic Eruption	Kuril Islands, USSR
93-73	Nishino-shima Submarine Volcanic Eruption	Bonin Islands, Japan
94-73	Curacoa Reef Submarine Volcanic Activity	Northern Tonga Islands, South Pacific Ocean
96-73	Mount Langila Volcanic Eruption	New Britain, Territory of New Guinea
97-73	Lagoa Rodrigo de Freitas Fish Kill	Rio de Janeiro, Brazil
99-73	Hemlock Looper Infestation	Massachusetts, USA
106-73	Western USA Forest Fires	Western USA
109-73	Puebla Earthquake	Puebla, Mexico
112-73	Indus River Floods	Punjab, Pakistan
117-73	Santiaguito Volcanic Eruption	Guatemala, Central America

SA0005A
PP HMSC GSTS
DE GSAO 005
21/1400Z
FM SMITHSONIAN OBSERVATORY CAMBRIDGE MASS
TO HMSC/DR JOHN KALTENBACH CODE TF6 PHONE 4017
JOHNSON SPACE CENTER HOUSTON TEXAS
INFO HMSC/KAPL HENIZE JOHNSON SPACE CENTER CODE CP PHONE 2222
GSTS/PAUL LOWMAN CODE 644

SKYLAB - SHORT-LIVED EVENT DAILY STATUS REPORT
TRACK: 52 REV: 1898 GMT:23/033259 LIGHT CONDITION: DAYLIGHT
EVENT: TIATIA VOLCANIC ERUPTION
STATE/COUNTRY: KUNASHIP ISLAND, KURIL ISLANDS, U.S.S.R.
LOCATION: LAT: 44 DEG 12 MINS N. LONG: 146 DEG 15 MINS E.
DESCRIPTION: TIATIA IS A STRATO VOLCANO OF THE SOMMA TYPE. HEIGHT OF
CENTRAL CONE IS 1822 METERS. THE CRATER OF THE SOMMA HAS DIAMETER OF
2500 METERS AND CRATER OF THE CENTRAL CONE HAS DIAMETER OF 250 METERS.
PRESENT ERUPTION BEGAN 14 JULY, AND ERUPTIONS OF FIRE AND ASH CONTINUE
AT 1.5-2 MINUTE INTERVALS. COLOR OF ISLAND CHANGED FROM GREEN TO GRAY
DUE TO ASH DEPOSITS. ERUPTION CLOUD HAD REACHED HEIGHT OF 5,000-6,000
METERS BY SECOND DAY OF ERUPTION.

TRACK: 57 REV: 1903 GMT:23/111306 LIGHT CONDITION: DAYLIGHT
EVENT: JAPANESE SEAWEEED INTRODUCTION TO ENGLAND
STATE/COUNTRY: ISLE OF WIGHT, ENGLAND
LOCATION: LAT: 50 DEG 40 MINS N. LONG: 01 DEG 15 MINS W.
DESCRIPTION: SPECIES OF JAPANESE SEAWEEED (SARGASSUM MUTICUM) WAS
INTRODUCED TO AREA 2 YEARS AGO. LOCAL SEAWEEED SPECIES ARE THREATENED.
SARGASSUM MUTICUM GROWS TO HEIGHT OF 2 METERS, RATE OF GROWTH IS 1 TO 2
CM PER DAY. IT GROWS ON ROCKY SHORES AND RANGE EXTENDS FROM BEACH TO
1.5 KM FROM THE SHORE.

TRACK: 57 REV: 1903 GMT:23/122851 LIGHT CONDITION: DAYLIGHT
63 1909 23/222232 DAYLIGHT
EVENT: PUEBLA EARTHQUAKE
STATE/COUNTRY: STATE OF PUEBLA, MEXICO
LOCATION: LAT: 18 DEG 18 MINS N. LONG: 96 DEG 30 MINS W.
DESCRIPTION: EARTHQUAKE OF 7.0 RICHTER OCCURRING 28 AUGUST 1973 HAS
CAUSED SIGNIFICANT STRUCTURAL COLLAPSE OF BUILDINGS, HOMES, AND
HOSPITALS IN SIX MEXICAN CITIES: CIUDAD SERDAN, ORIZABA, CORDOBA
PUEBLA, TEHUACAN, AND MEXICO CITY. GREATEST DAMAGE IN CIUDAD SERDAN,
ORIZABA, AND CORDOBA, REPORTED DAMAGE TO MAIN HIGHWAY THROUGH ORIZABA
AND CORDOBA LEADING TO VERACRUZ STATE.

TRACK: 61 REV: 1907 GMT:23/183255 LIGHT CONDITION: DARKNESS
EVENT: MOUNT LANGILA VOLCANIC ERUPTION
STATE/COUNTRY: NEW BRITAIN, TERRITORY OF PAPUA/NEW GUINEA
LOCATION: LAT: 05 DEG 31 MINS S. LONG: 148 DEG 25 MINS E.
DESCRIPTION: MOUNT LANGILA IS A STRATO VOLCANO RISING 1189 METERS
ABOVE SEA LEVEL. IT IS A COMPLEX VOLCANO WITH 3 CRATERS ALIGNED
ARCUATELY IN A NORTHEAST DIRECTION. THE ERUPTION OF LAVA FROM
NO. 3 CRATER COMMENCED 12 JULY AND LAVA FLOW WAS 1 KM LONG AND
300 METERS WIDE BY 18 JULY WITH LAVA STILL BEING EXTRUDED

21/1405Z SEP GSAC